

AMENDMENTS TO THE ABSTRACT

Please replace the ABSTRACT paragraph on page 24 of the specification with the amended paragraph provided below with markings to show changes:

A system for three-dimensional tomosynthesis imaging of a target element includes ~~is provided having~~ an image acquisition element and a processor. The image acquisition element obtains a plurality of images of the target element from a plurality of angles and includes a radiation source that is positionable at a plurality of angles with respect to the target element and a radiation detector. The radiation detector is positioned so as to detect radiation emitted by the radiation source passing through the target element and determine a plurality of attenuation values for radiation passing through the target element to establish a radiation absorbance projection image of the target element for a particular radiation source angle. The processor is configured to apply an iterative reconstruction algorithm to the radiation absorbance projection images of the target element obtained from a plurality of radiation source angles to generate a three-dimensional reconstruction of the target element. ~~The system can gain further accuracy where the iterative reconstruction algorithm is applied using cone beam forward projection and back projection.~~